

ECS Configuration Change Request

Page 1 of

Page(s)

1. Originator Cherry Kenney	2. Log Date: 11/26/01	3. CCR #: 01-0893	4. Rev: —	5. Tel: 301-883-4177	6. Rm #: 3041	7. Dept. DEV/SWIT
8. CCR Title: PATCH_6A04_IDG.02B For All DAACs will support fixes for SubServer Database growth (31501), SubServer Memory Leaks (22677) registry tree copy process (31412), requests not coming into distribution from subscription server (32086)						
9. Originator Signature/Date Cherry Kenney /s/ 11/26/01		10. Class II	11. Type: CCR	12. Need Date: 26Nov01		
13. Office Manager Signature/Date Mark McBride /s/ 11/26/01		14. Category of Change: Initial ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Emergency		
16. Documentation/Drawings Impacted:		17. Schedule Impact: n/a		18. CI(s) Affected: IDG		
19. Release Affected by this Change: 6A		20. Date due to Customer: 26Nov01		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: 31501, 31412, 22677, 32086, 32325						
23. Problem: (use additional Sheets if necessary) 31501 GSFC/SMC - Unchecked growth in OPS SubServer Database 31412 Registry copy tree process takes too long 22677 Subscription Server Memory Leaks 32086 GSFC/SMC Requests not coming into distribution from subscription server 32325 - Create stored procs to pop subscriptions						
24. Proposed Solution: (use additional sheets if necessary) PATCH_6A04_IDG.02B To be loaded over top of Patch_ 6A.04_IDG.01.						
25. Alternate Solution: (use additional sheets if necessary) Wait until next s/w release						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Delays in getting fixes to the field, DAACs must continue to work around problems						
27. Justification for Emergency (If Block 15 is "Emergency"): NCR fixes are needed at DAACs to support 6A04 regression testing						
28. Site(s) Affected: <input type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. EDF/SCDV CCB Chair (Sign/Date): Byron V. Peters /s/ 11/26/01		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB				
33. M&O CCB Chair (Sign/Date): Pamela Johnson /s/ 11/26/01		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS Fwd/ECS				
34. ECS CCB Chair (Sign/Date):		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS Fwd/ESDIS				

ADDITIONAL SHEET

CCR #: **Rev:** **Originator:** Cherry Kenney

Telephone: 301-883-4177 **Office:** 3204D

Title of Change: PATCH_6A04_IDG.02B For All DAACs will support fixes for SubServer Database growth (31501), SubServer Memory Leaks (22677) registry tree copy process (31412), requests not coming into distribution from subscription server (32086)

Actions

ClearCase

PLEASE, build Sun TAR file for the listed files from current 6A04 baseline

.EcCsINTFCSVR.pkg
.EcCsSubServerGUI.pkg
EcCsSubServerDB.pkg
.EcCsRegistryGUI.pkg

Please name tar file: Patch_6A.04_IDG.02B

DACC INSTALL INSTRUCTIONS

1. Get TAR File from SMC distribution;

List of packages:

.EcCsINTFCSVR.pkg
.EcCsSubServerGUI.pkg
.EcCsSubServerDB.pkg
.EcCsRegistryGUI.pkg

2. If you are untarring this file for multiple modes then untar the file as "cmshared" or change the permissions in the staging area on the file /<distribution_directory>/<staging_directory>/SUN/CUSTOM/dbms/CSS/EcCsSbDbLogin to 744 after you untar. Ensure that you update ECS Assist when prompted. Please remember that you must be logged in as "root" when you update ECS Assist.

3. After the tarfile is UNTARRED, you must first edit the .cfgpatch file found in /<distribution_directory>/<staging_directory>/SUN/CUSTOM/installed/CSS/IDG/.cfgpatch before you perform an install of the software. Make the following changes to the .cfgpatch file:

- Change the third line that updates the .dbparms file for the DAAC site as follows:
Change "UPD ALL ALL ALL CSS EcCsId .dbparms EcCsSbDbPatch DAAC gsfc" to
"ADD ALL ALL ALL CSS EcCsId .dbparms EcCsSbDbPatch DAAC <DAAC>"

Change <DAAC> to your appropriate DAAC mnemonic.

Note: This changes the UPD to an ADD for this line.

- Change the fifth line that adds the RevisionLevel parameter to .dbparms files as follows:
Change "ADD ALL ALL ALL CSS EcCsId .dbparms RevLevel RevisionLevel %\${REVISION_LEVEL}" to
"UPD ALL ALL ALL CSS EcCsId .dbparms RevLevel RevisionLevel %\${REVISION_LEVEL}"

Note: This just changes the ADD to an UPD for this line.

4. Use E.A.S.I. to perform an automated installation of all four packages listed in step 1. For information on how to use E.A.S.I. please refer to the 609 CDRL.

5. If the you have already installed PATCH_6A04_IDG.01, go to the next step. Otherwise,

use the Subsystem Manager of ECS Assist , on the Subscription Server host to apply the CSS/IDG registry patch. The .rgypatch file to be applied is /usr/ecs/<MODE>/CUSTOM/installed/CSS/IDG/.rgypatch . This registry patch sets the number of SBSRV DB connections to 10. For additional registry patch installation instructions refer to section 5 of the 6A.04 installation instructions.

6. On the xxinsxx machine, patch the Subscription Server database. Identify the current version of the SubServer database. If the database version is not at version 605, run DbPatch from the ECS Assist Subsystem Manager (select DBPatch from the Database menu after having selected the mode, subsystem (CSS), and component (EcCsId) in the GUI). The patch level should be shown as 605. Then enter the DBO ID, password, SQL server name and database name and click Ok.

7. Ensure IDG server (Subscription Server) is restarted.

8. Check logs for any error messages.

Note: Subscriptions for the following ESDTs can now be resubmitted to the Subscription Server database via the Subscription Server GUI: MOD08_D3.001, AIRABDBR.001 and AIRHBDBR.001.(For GSFC DAAC Only)

***** END OF INSTALLATION INSTRUCTION *****

IDG.02B Test Report:

31412 (C) - Registry tree process takes too long
Resolution: CLOSED

31501 (V) - Unchecked growth in Subserver Database

Test Plan:

1. Make 20 subscriptions on ESDT via the Subscription GUI
2. Insert granules every 2 to 3 seconds for approx. 20 mins using EcInGWClient.
3. Then both before and after test note the information within the EcSbSubworkoff and EcSbActionworkoff tables in the Subscription database.

Test Resolution: Made subscriptions, kicked off EcInGWClient and monitored database tables. NCR successfully verified.

22677 (V) - Memory leak

Test Plan:

1. Start SDSRV. and run "top" to watch the size of SBSRV.
2. Make subscriptions on AST_L1BT with acquire actions and qualifiers with SBSRV GUI.
3. By far, the size of SBSRV should not be increased more than about 6M.
4. Use either EcInGWClient or Ingest server to insert AST_L1BT granules multiple times and watch the size changes of SBSRV.

Test Resolution: NCR verified in conjunction with 31501, SBSRV size did not change. NCR successfully verified.

32086 (T) - GSFC/SMC Requests not coming into distribution from subscription

2325 (T) - Create stored Procs to pop subscriptions ,,

Test Resolution: Can't verify NCRs , we don't have the sufficient data to reproduce (32K granule size needed).
(DAAC Verification)